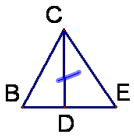
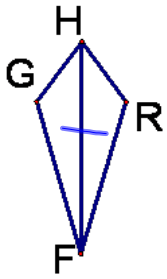


Given: picture
Conclusion: CD = CD
Reason: Reflexive

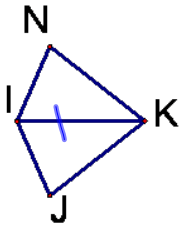
1.



Given: picture
Conclusion: HF = HF
Reason: Reflexive

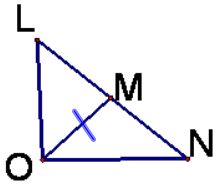
2.

Conclusion: IK = IK
Reason: Reflexive



3.

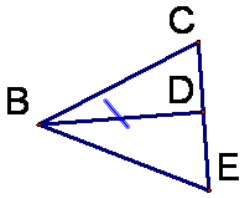
Conclusion: OM = OM
Reason: Reflexive



4.

Conclusion: BD = BD

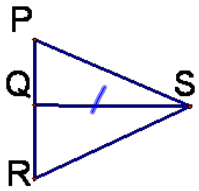
Reason: Reflexive

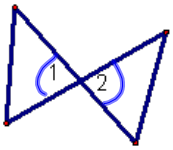


5.

Conclusion: QS = QS

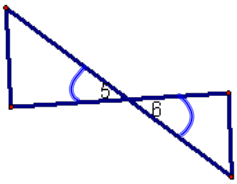
Reason: Reflexive





Given: picture
Conclusion: ∠1 ≅ ∠2
Reason: Vertical ∠s are ≅

10.

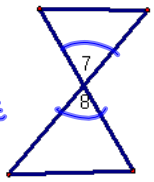


Given: picture
Conclusion: ∠5 ≅ ∠6
Reason: Vertical ∠s are ≅

11.

Conclusion: $\angle 7 \cong \angle 8$

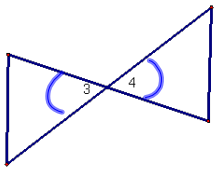
Reason: Vert $\angle$s are $\cong$

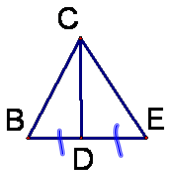


12.

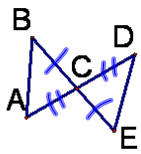
Conclusion: $\angle 3 \cong \angle 4$

Reason: Vert $\angle$s are $\cong$



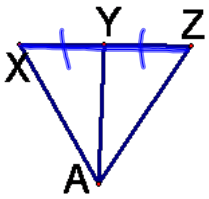


Given: D is the midpoint of $\overline{BE}$
Conclusion: BD = DE
Reason: Def. of midpoint



Given: C is the midpoint of $\overline{BE}$ and $\overline{AD}$
Conclusion #1: BC = CE
Conclusion #2: AC = CD
Reason: Def. of midpoint

16.



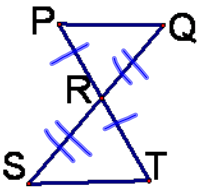
Given: Y is the midpoint of $\overline{XZ}$
Conclusion: XY = YZ
Reason: def of midpt.

17.

Conclusion #1: PR = RT

Conclusion #2: QR = RS

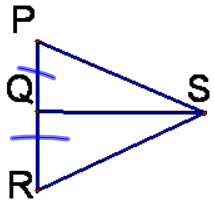
Reason: def. of midpt

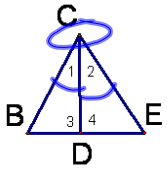


18.

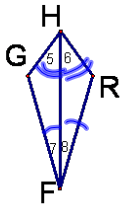
Conclusion : QP = RQ

Reason: def of midpt



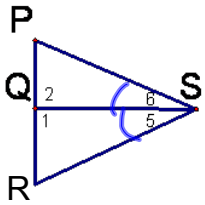


Given: $\overline{CD}$ bisects ∠BCE
Conclusion: ∠1 ≅ ∠2
Reason: def. of ∠ bisector



Given: $\overline{HF}$ bisects ∠GER and ∠GHR
Conclusion #1: ∠5 ≅ ∠6
Conclusion #2: ∠7 ≅ ∠8
Reason: def. of ∠ bisector

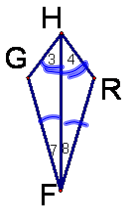
22.



Given: $\overline{QS}$ bisects ∠PSR
Conclusion: ∠5 ≅ ∠6
Reason: def of ∠ Bis

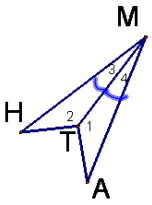
23.
Conclusion #1: $\angle 7 \cong \angle 8$
Conclusion #2: $\angle 3 \cong \angle 4$

Reason: def of $\angle$ Bis.

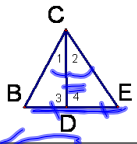


24.
Conclusion : $\angle 3 \cong \angle 4$

Reason: def of $\angle$ Bis.

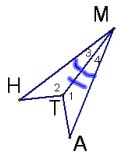


For the following problems, state as many conclusions as possible and give the reasons for each conclusion.
28.



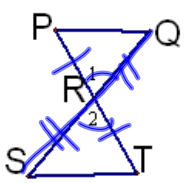
Given: $\overline{CD}$ bisects $\angle BCE$; D is the midpoint of $\overline{BE}$
Conclusion#1: $\angle 1 \cong \angle 2$ Reason: def of $\angle$ Bisector.
Conclusion#2: $BD = DE$ Reason: def of midpt
Conclusion#3: $CD = CD$ Reason: Reflexive

29.



Given: $\overline{MT}$ bisects $\angle HMA$;
Conclusion#1: $\angle 3 \cong \angle 4$ Reason: def of $\angle$ Bis.
Conclusion#2: $MT = MT$ Reason: Reflexive

30.



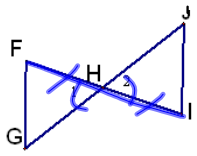
Given: R is the midpoint of $\overline{QS}$ and $\overline{PT}$

Conclusion#1: PR=RT Reason: def of midpt

Conclusion#2: SR=QR Reason: " " "

Conclusion#3: $\angle 1 \cong \angle 2$ Reason: vert. $\angle$s are $\cong$

31.



HW 32-37

Given: H is the midpoint of $\overline{FI}$

Conclusion#1: FH = HI Reason: def of midpt

Conclusion#2: $\angle 1 \cong \angle 2$ Reason: Vert $\angle$s $\cong$